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|--|----|--|---|---------------------|
| | 3 | (LED or light adj emitting adj diode) adj array and driver and current adj constant and compare | USPAT; EPO; JPO | 2004/02/11 16:08 |
| | 1 | (LED or light adj emitting adj diode) adj array and driver and compare adj current and correct | USPAT; EPO; JPO | 2004/02/11 16:13 |
| | 3 | (LED or light adj emitting adj diode) adj array and driver and compare adj current and predetermin\$8 and value | USPAT; EPO; JPO | 2004/02/11 16:15 |
| | 0 | (LED or light adj emitting adj diode) adj array and array adj driver and compare adj current and predetermin\$8 and value | USPAT; EPO; JPO | 2004/02/11 16:15 |
| | 0 | (LED or light adj emitting adj diode) adj array and array adj driver and compare adj current and predetermin\$8 | USPAT; EPO; JPO | 2004/02/11 16:15 |
| | 7 | (LED or light adj emitting adj diode) adj array and array adj driver and compare and current and predetermin\$8 | USPAT; EPO; JPO | 2004/02/11 16:17 |
| | 3 | (LED or light adj emitting adj diode) adj array and array adj driver and compare and current and predetermin\$8 and constant | USPAT; EPO; JPO | 2004/02/12 08:35 |
| | 0 | (LED or light adj emitting adj diode) adj array and array adj driver and compare and current and predetermin\$8 and constant and (CLK or cloack) | USPAT; EPO; JPO | 2004/11/01 11:41 |
| | 1 | display and first adj (LED or light adj emitting adj diode) adj cluster and second adj (LED or light adj emitting adj diode) adj cluster | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/10/26 07:51 |
| | 13 | display and first adj (LED or light adj emitting adj diode) adj array and second adj (LED or light adj emitting adj diode) adj array and switch\$6 | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/10/26 07:52 |
| | 1 | display and first adj (LED or light adj emitting adj diode) adj array and second adj (LED or light adj emitting adj diode) adj array and switch\$6 and arrang\$6 and series and supply\$6 and voltage\$1 | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/10/26 07:53 |
| | 6 | display and first adj (LED or light adj emitting adj diode) adj array and second adj (LED or light adj emitting adj diode) adj array and switch\$6 and arrang\$6 and series | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/10/26 07:54 |
| | 12 | display and first adj (LED or light adj emitting adj diode) adj array and second adj (LED or light adj emitting adj diode) adj array and switch\$6 and arrang\$6 | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/10/26 08:37 |
| | 1 | display and first adj (LED or light adj emitting adj diode) adj array and second adj (LED or light adj emitting adj diode) adj array and switch\$6 and arrang\$6 and series and supply\$6 and voltage\$1 and current | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/10/26 08:38 |
| | 6 | display and first adj (LED or light adj emitting adj diode) adj array and second adj (LED or light adj emitting adj diode) adj array and switch\$6 and arrang\$6 and current | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/11/01 09:19 |
| | 21 | display and first adj (LED or light adj emitting adj diode) adj array and second adj (LED or light adj emitting adj diode) adj array | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/10/26 09:26 |

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|--|---|---|---|------------------|
| | 2 | 5,634,711.pn. | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB | 2004/10/26 09:31 |
| | 3 | 6,400,101.pn. | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB | 2004/11/01 09:05 |
| | 2 | 6,515,434.pn. | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB | 2004/11/01 09:05 |
| | 0 | display and first adj (LED or light adj emitting adj diode) adj array and second adj (LED or light adj emitting adj diode) adj array and switch\$6 and arrang\$6 and current\$1 and total and compare\$6 | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB | 2004/11/01 09:20 |
| | 5 | first adj (LED or light adj emitting adj diode) adj array and second adj (LED or light adj emitting adj diode) adj array and switch\$6 and arrang\$6 and current\$1 and total and compare\$6 | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB | 2004/11/01 09:23 |
| | 0 | first adj (LED or light adj emitting adj diode) adj array and second adj (LED or light adj emitting adj diode) adj array and switch\$6 and arrang\$6 and current\$1 adj total and compare\$6 | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB | 2004/11/01 09:23 |
| | 0 | first adj (LED or light adj emitting adj diode) adj array and second adj (LED or light adj emitting adj diode) adj array and switch\$6 and current\$1 adj total and compare\$6 | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB | 2004/11/01 09:23 |
| | 0 | first adj (LED or light adj emitting adj diode) adj array and second adj (LED or light adj emitting adj diode) adj array and switch\$6 and current\$1 adj (sum or add) and compare\$6 | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB | 2004/11/01 09:24 |
| | 1 | first adj (LED or light adj emitting adj diode) adj array and second adj (LED or light adj emitting adj diode) adj array and switch\$6 and (current\$1 and (sum or add)) and compare\$6 | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB | 2004/11/01 09:25 |
| | 0 | first adj (LED or light adj emitting adj diode) adj array and second adj (LED or light adj emitting adj diode) adj array and switch\$6 and (current\$1 and (sum or add)) and compare\$6 and fault | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB | 2004/11/01 09:26 |
| | 0 | first adj (LED or light adj emitting adj diode) adj array and second adj (LED or light adj emitting adj diode) adj array and switch\$6 and (current\$1 and (sum or add)) and compare\$6 and error | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB | 2004/11/01 09:26 |
| | 1 | first adj (LED or light adj emitting adj diode) adj array and second adj (LED or light adj emitting adj diode) adj array and switch\$6 and (current\$1 and (sum or add)) and compare\$6 and (error or fault or failure) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB | 2004/11/01 09:27 |
| | 0 | first adj (LED or light adj emitting adj diode) adj array and second adj (LED or light adj emitting adj diode) adj array and master and slave and operation | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB | 2004/11/01 09:28 |
| | 0 | first adj (LED or light adj emitting adj diode) adj array and second adj (LED or light adj emitting adj diode) adj array and master/slave | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB | 2004/11/01 09:29 |

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| | 0 | first adj (LED or light adj emitting adj diode) adj array and second adj (LED or light adj emitting adj diode) adj array and master | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/11/01 09:29 |
| | 1 | first adj (LED or light adj emitting adj diode) adj array and second adj (LED or light adj emitting adj diode) adj array and slave | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/11/01 09:32 |
| | 0 | first adj (LED or light adj emitting adj diode) adj array and second adj (LED or light adj emitting adj diode) adj array and slave and currents | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/11/01 09:32 |
| | 3 | display and first adj (LED or light adj emitting adj diode) adj array and second adj (LED or light adj emitting adj diode) adj array and switch | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/11/01 11:40 |
| | 2 | (LED or light adj emitting adj diode) adj array and array adj driver and compare and current and predetermin\$8 and constant and (CLK or clock) | USPAT; EPO; JPO | 2004/11/01 11:41 |

| L Number | Hits | Search Text | DB | Time stamp |
|----------|------|---|-----------------|------------------|
| - | 534 | 345/82.ccls. | USPAT; EPO; JPO | 2004/02/11 06:31 |
| - | 0 | 345/82.ccls. and drive adj circuit adj LED adj array | USPAT; EPO; JPO | 2004/02/11 07:06 |
| - | 5 | 345/82.ccls. and drive adj circuit adj LED | USPAT; EPO; JPO | 2004/02/11 07:06 |
| - | 1 | 345/82.ccls. and drive adj circuit adj LED and LED adj array | USPAT; EPO; JPO | 2004/02/11 07:08 |
| - | 8 | drive adj circuit adj LED and LED adj array and information | USPAT; EPO; JPO | 2004/02/11 07:09 |
| - | 8 | drive adj circuit adj LED and LED adj array and information and signal | USPAT; EPO; JPO | 2004/02/11 07:09 |
| - | 0 | drive adj circuit adj LED and LED adj array and information and signal and under adj shoot\$5 | USPAT; EPO; JPO | 2004/02/11 07:10 |
| - | 0 | drive adj circuit adj LED and LED adj array and information and signal and under and shoot\$5 | USPAT; EPO; JPO | 2004/02/11 07:10 |
| - | 7 | drive adj circuit adj LED and LED adj array and information and signal and lower | USPAT; EPO; JPO | 2004/02/11 07:10 |
| - | 1 | drive adj circuit adj LED and LED adj array and information and signal and lower and magnitude | USPAT; EPO; JPO | 2004/02/11 07:10 |
| - | 15 | drive adj circuit adj LED and LED adj array | USPAT; EPO; JPO | 2004/02/11 08:43 |
| - | 1 | drive adj circuit adj LED and LED adj array and monitor | USPAT; EPO; JPO | 2004/02/11 07:17 |
| - | 6349 | LED adj array | USPAT; EPO; JPO | 2004/02/11 08:06 |
| - | 382 | LED adj array and drive adj circuit | USPAT; EPO; JPO | 2004/02/11 08:11 |
| - | 4 | LED adj array and drive adj circuit and LED adj cluster | USPAT; EPO; JPO | 2004/02/11 08:11 |
| - | 4 | (LED or light emitting adj diode) adj array and drive adj circuit and (LED or light emitting adj diode) adj cluster | USPAT; EPO; JPO | 2004/02/11 08:15 |
| - | 4 | (LED or light emitting adj diode) adj array and drive adj circuit and (LED or light emitting adj diode) adj cluster\$1 | USPAT; EPO; JPO | 2004/02/11 08:15 |
| - | 16 | (LED or light emitting adj diode) adj array and drive adj circuit and cluster\$1 | USPAT; EPO; JPO | 2004/02/11 08:16 |
| - | 9 | (LED or light emitting adj diode) adj array and drive adj circuit and cluster\$1 and switch\$1 | USPAT; EPO; JPO | 2004/02/11 08:16 |
| - | 8 | (LED or light emitting adj diode) adj array and drive adj circuit and cluster\$1 and switch\$1 and first | USPAT; EPO; JPO | 2004/02/11 08:16 |
| - | 0 | (LED or light emitting adj diode) adj array and drive adj circuit and cluster\$1 and switch\$1 and first and current and current adj loop | USPAT; EPO; JPO | 2004/02/11 08:17 |
| - | 1 | (LED or light emitting adj diode) adj array and drive adj circuit and cluster\$1 and switch\$1 and first and current and control adj loop | USPAT; EPO; JPO | 2004/02/11 08:26 |
| - | 7 | (LED or light emitting adj diode) adj array and drive adj circuit and cluster\$1 and switch\$1 and first and current | USPAT; EPO; JPO | 2004/02/11 08:21 |
| - | 1 | 6400101.pn. | USPAT; EPO; JPO | 2004/02/11 08:23 |
| - | 3 | (LED or light emitting adj diode) adj array and drive adj circuit and cluster\$1 and switch\$1 and first and current and control and loop | USPAT; EPO; JPO | 2004/02/11 08:27 |

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| | | 3 | (LED or light emitting adj diode) adj array and drive adj circuit and cluster\$1 and switch\$1 and first and current and control and loop and constant | USPAT; EPO; JPO | 2004/02/11 08:27 |
| | | 2 | (LED or light emitting adj diode) adj array and drive adj circuit and cluster\$1 and switch\$1 and first and current and control and loop and constant and mean | USPAT; EPO; JPO | 2004/02/11 08:27 |
| | | 2 | (LED or light emitting adj diode) adj array and drive adj circuit and cluster\$1 and switch\$1 and first and current and control and loop and constant and mean and value | USPAT; EPO; JPO | 2004/02/11 08:28 |
| | | 2 | (LED or light emitting adj diode) adj array and drive adj circuit and cluster\$1 and switch\$1 and first and current and control and loop and constant and mean and value and second | USPAT; EPO; JPO | 2004/02/11 08:28 |
| | | 2 | (LED or light emitting adj diode) adj array and drive adj circuit and cluster\$1 and switch\$1 and first and current and control and loop and constant and mean and value and second and detect\$6 | USPAT; EPO; JPO | 2004/02/11 08:29 |
| | | 0 | (LED or light emitting adj diode) adj array and drive adj circuit and cluster\$1 and switch\$1 and first and current and control and loop and constant and mean and value and second and detect\$6 and sum | USPAT; EPO; JPO | 2004/02/11 08:29 |
| | | 2 | (LED or light emitting adj diode) adj array and drive adj circuit and cluster\$1 and switch\$1 and first and current and control and loop and constant and mean and value and second and detect\$6 and add\$8 | USPAT; EPO; JPO | 2004/02/11 13:42 |
| | | 2 | drive adj circuit adj LED and LED adj array and cluster\$1 | USPAT; EPO; JPO | 2004/02/11 08:43 |
| | | 5 | drive adj circuit adj LED and LED adj array and group\$1 | USPAT; EPO; JPO | 2004/02/11 08:44 |
| | | 5 | drive adj circuit adj LED and LED adj array and group\$1 and current | USPAT; EPO; JPO | 2004/02/11 08:44 |
| | | 5 | drive adj circuit adj LED and LED adj array and group\$1 and current and constant | USPAT; EPO; JPO | 2004/02/11 08:44 |
| | | 0 | drive adj circuit adj LED and LED adj array and group\$1 and current and constant and compare | USPAT; EPO; JPO | 2004/02/11 08:44 |
| | | 0 | drive adj circuit adj LED and LED adj array and group\$1 and current and constant and compar\$8 and detect\$8 and magnitude | USPAT; EPO; JPO | 2004/02/11 08:45 |
| | | 1 | drive adj circuit adj LED and LED adj array and group\$1 and current and constant and compar\$8 and detect\$8 and sum | USPAT; EPO; JPO | 2004/02/11 08:46 |
| | | 4 | drive adj circuit adj LED and LED adj array and group\$1 and current and constant and compar\$8 and detect\$8 | USPAT; EPO; JPO | 2004/02/11 08:49 |
| | | 5 | drive adj circuit adj LED and LED adj array and group\$1 and current and constant and compar\$8 | USPAT; EPO; JPO | 2004/02/11 13:53 |
| | | 2 | (LED or light emitting adj diode) adj array and drive adj circuit and cluster\$1 and switch\$1 and first and current and control and loop and constant and mean and value and second and detect\$6 and add\$8 and compar\$8 | USPAT; EPO; JPO | 2004/02/11 13:43 |

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| | | 1 | drive adj circuit adj LED and LED adj array and group\$1 and current and constant and compar\$8 and cluster\$1 and switch\$1 and first and control and loop and mean and value and second and detect\$6 and (add\$8 or sum\$5) | USPAT; EPO; JPO | 2004/02/11 13:55 |
| | | 1 | drive adj circuit adj LED and LED adj array and group\$1 and current and constant and compar\$8 and cluster\$1 and switch\$1 and first and control and loop and second and detect\$6 and (add\$8 or sum\$5) | USPAT; EPO; JPO | 2004/02/11 13:55 |
| | | 1 | drive adj circuit adj LED and LED adj array and group\$1 and current and constant and compar\$8 and cluster\$1 and switch\$1 and first and second and detect\$6 and (add\$8 or sum\$5) | USPAT; EPO; JPO | 2004/02/11 16:31 |
| | | 1 | drive adj circuit adj LED and LED adj array and group\$1 and current and constant and compar\$8 and cluster\$1 and switch\$1 | USPAT; EPO; JPO | 2004/02/11 13:55 |
| | | 1 | drive adj circuit adj LED and LED adj array and group\$1 and current and constant and compar\$8 and switch\$1 and first and control and loop and mean and value and second and detect\$6 and (add\$8 or sum\$5) | USPAT; EPO; JPO | 2004/02/11 13:56 |
| | | 4 | drive adj circuit adj LED and LED adj array and group\$1 and current and constant and compar\$8 and switch\$1 and first and control and value and second and detect\$6 and (add\$8 or sum\$5) | USPAT; EPO; JPO | 2004/02/11 13:57 |
| | | 5 | drive adj circuit adj LED and LED adj array and group\$1 and current and constant and compar\$8 and switch\$1 | USPAT; EPO; JPO | 2004/02/11 13:56 |
| | | 4 | drive adj circuit adj LED and LED adj array and group\$1 and current and constant and compar\$8 and switch\$1 and first and control and value and second and detect\$6 | USPAT; EPO; JPO | 2004/02/11 13:57 |
| | 276764 | | LED or light adj emitting adj diode | USPAT; EPO; JPO | 2004/02/11 14:34 |
| | | 7589 | (LED or light adj emitting adj diode) adj array | USPAT; EPO; JPO | 2004/02/11 14:34 |
| | | 112 | (LED or light adj emitting adj diode) adj array and cluster\$1 | USPAT; EPO; JPO | 2004/02/11 14:34 |
| | | 78 | (LED or light adj emitting adj diode) adj array and cluster\$1 and current | USPAT; EPO; JPO | 2004/02/11 14:34 |
| | | 40 | (LED or light adj emitting adj diode) adj array and cluster\$1 and current and constant | USPAT; EPO; JPO | 2004/02/11 14:35 |
| | | 9 | (LED or light adj emitting adj diode) adj array and cluster\$1 and current and constant and compare | USPAT; EPO; JPO | 2004/02/11 14:46 |
| | | 0 | (LED or light adj emitting adj diode) adj array and cluster\$1 and current adj constant and compare | USPAT; EPO; JPO | 2004/02/11 14:36 |
| | | 1 | (LED or light adj emitting adj diode) adj array and cluster\$1 and current adj constant | USPAT; EPO; JPO | 2004/02/11 14:36 |
| | | 1 | 5,495,157.pn. | USPAT; EPO; JPO | 2004/02/11 14:38 |
| | | 1 | 5,495,147.pn. | USPAT; EPO; JPO | 2004/02/11 14:38 |
| | | 8401 | (LED or light adj emitting adj diode) adj array current adj constant and compare | USPAT; EPO; JPO | 2004/02/11 14:46 |
| | | 3 | (LED or light adj emitting adj diode) adj array and current adj constant and compare | USPAT; EPO; JPO | 2004/02/11 14:54 |